

AD-A110 019

ARMY ENGINEER DISTRICT PHILADELPHIA PA  
NATIONAL DAM SAFETY PROGRAM ABSTRACT, PHASE 1 INSPECTION REPORT--ETC(U)  
SEP 81

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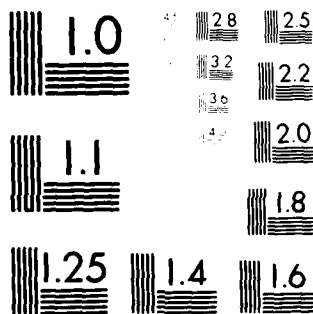
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DAEN/NAP-53842/DEA-81/09

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REPORT NO: DAEN/NAP-53842 / DEA -81/09

NATIONAL DAM SAFETY PROGRAM

**ABSTRACT**

**PHASE 1**

**INSPECTION REPORTS**

**DELAWARE**



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**DEPARTMENT OF THE ARMY**

Philadelphia District  
Corps of Engineers  
Philadelphia, Pennsylvania

**SEPTEMBER 1981**

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20. ABSTRACT (Continue on reverse side if necessary and identify by block number) This listing comprises all dams in Delaware inspected under the National Dam Safety Program administered by the U.S. Army Corps of Engineers, Philadelphia District.		

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# TITLE INDEX

<u>Name of Dam</u>	<u>Federal ID. No.</u>	<u>Report No.</u>	<u>Page</u>
Cool Springs Reservoir Dam	DE00014	AD-A074 508	3
Edgemoor Reservoir Dam	DE00012	AD-A084 058	2
Haven Lake Dam	DE00042	AD-A058 462	7
Hoopes Dam	DE00015	AD-A074 272	3
Horseys Pond Dam	DE00022	AD-A069 215	6
Lake Como Dam	DE00028	AD-A096 058	1
Millsboro Pond Dam	DE00018	AD-A087 331	1
Porter Reservoir Dam	DE00013	AD-A085 933	2
Records Pond Dam	DE00057	AD-A058 464	7
Silver Lake Dam	DE00031	AD-A057 800	8
Silver Lake Dam	DE00041	AD-A058 511	6
Sunset Lake Dam	DE00046	AD-A069 602	5
Wagamons Pond Dam	DE00061	AD-A069 616	4
Williams Pond Dam	DE00064	AD-A070 228	4
Wyoming Lake Dam	DE00034	AD-A069 593	5



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AD-A096 058

13/13

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA

National Dam Safety Program, Lake Como  
Dam (DE 00028), Delaware River Basin,  
Mill Creek, Kent County, Delaware, Phase  
I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

NOV 80 100P Williams, John J. ;

CONTRACT: DACW61-80-D-0013

MONITOR: DAEN/NAP 53842/DE00028-80/11

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All  
DTIC and NTIS reproductions will be in black and  
white.

ABSTRACT: This report cites results of a technical  
investigation as to the dam's adequacy. The  
inspection and evaluation of the dam is as prescribed  
by the National Dam Inspection Act, Public  
Law 92-367. The technical investigation includes  
visual inspection, review of available design and  
construction records, and preliminary structural and  
hydraulic and hydrologic calculations, as applicable.  
An assessment of the dam's general condition is  
included in the report. (Author)

(U)

DESCRIPTORS: \*Earth dams, Delaware, Reservoirs.

Visual inspection, Hydrology, Flooding, Damag

IDENTIFIERS: \*Lake Como Dam, National Dam

Inspection Program

(U)

AD-A087 331

13/13

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND  
COURTNEY DIV

National Dam Safety Program, Millsboro  
Pond Dam, (DE00018), Delaware River  
Basin, Indian River, Sussex County,  
Delaware, Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

DEC 79 90P Williams, John J. ;

CONTRACT: DACW61-78-C-0052

MONITOR: DAEN/NAP 53842/DE00018-79/12

UNCLASSIFIED REPORT

Availability: Document partially illegible.  
ABSTRACT: This report cites results of a technical  
investigation as to the dam's adequacy. The  
inspection and evaluation of the dam is as prescribed  
by the National Dam Inspection Act, Public  
Law 92-367. The technical investigation includes  
visual inspection, review of available design and  
construction records, and preliminary structural and  
hydraulic and hydrologic calculations, as applicable.  
An assessment of the dam's general condition is  
included in the report. (Author)

(U)

DESCRIPTORS: \*Earth dams, Delaware, Reservoirs.

Visual inspection, Safety, Stability, Hydrology.

Flooding, Deficiencies

IDENTIFIERS: \*Millsboro Pond Dam, National

Dam Inspection Program, Spillways

(U)

AD-A096 058

PAGE

1

AD-A087 331



AD-A085 933

13/13 13/2

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND COURTNEY DIV

National Dam Safety Program. Porter Reservoir Dam (DE 00013) Delaware River Basin, Matson Run Offstream, New Castle County, Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

DEC 79 60P Williams, John J. ;

CONTRACT: DACW61-78-C-0052

MONITOR: DAEN/NAP 53842/DE00013-79/12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DTIC and NTIS reproductions will be in black and white.

ABSTRACT: Based on visual inspection, available records, calculations and past operational performance, Porter Reservoir, a high hazard potential structure, is judged to be in good overall condition. The reservoir is capable of storing the selected design storm of one half of the Probable Maximum Precipitation. To ensure adequacy of the structure, remedial actions which should be initiated within six months from the date of approval of this report, are provided.

DESCRIPTORS: \*Earth dams, Delaware, Reservoirs, Visual inspection, Safety, Stability, Hydrology, Flooding, Deficiencies, Water supplies  
IDENTIFIERS: \*Porter Reservoir Dam, National Dam Inspection Program

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AD-A084 058

13/13

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND COURTNEY DIV

National Dam Safety Program. Edgemoor Reservoir (DE00012). Delaware River Basin, Shellpot Creek Offstream, New Castle County, Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

DEC 79 49P Williams, John J. ;

CONTRACT: DACW61-78-C-0052

MONITOR: DAEN/NAP 53842/DE00012-79/12

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DTIC and NTIS reproductions will be in black and white.

ABSTRACT: Edgemoor Reservoir is an offstream impoundment located approximately 1,000 feet west of Shellpot Creek and 300 feet east of the corporate boundary of the City of Wilmington, Delaware. The dam is a homogeneous earth embankment aligned in a circular configuration in plan so that the dam completely encloses the reservoir. The circular length of the embankment is approximately 1,760 feet and the maximum height is about 17 feet. The interior slope of the embankment is lined with concrete and stone masonry. The reservoir functions as a water supply impoundment for the Wilmington Suburban area. The selected design storm for this small size, high hazard dam is 50 percent of the Probable Maximum Precipitation (PMP). The reservoir is capable of retaining approximately 88 percent of the design storm without overtopping of the embankment. The initial reservoir level was taken as Elevation 82.3, which is shown as the flow line elevation one foot below the top of dam). The design storm would overtop the embankment by approximately 1.7 inches. Therefore, the flood storage capacity of the reservoir is inadequate for retaining the design storm.

(U)

DESCRIPTORS: \*Earth dams, Delaware, Reservoirs, Visual inspection, Safety, Stability, Hydrology, Flooding, Deficiencies  
IDENTIFIERS: \*Edgemoor Reservoir Dam, National Dam Inspection Program

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(U)

AD-A085 933

PAGE 2

AD-A084 058

AD-A074 508

13/2 13/13

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA

National Dam Safety Program. Cool Springs Reservoir Dam (DE 00014). Delaware River Basin, Brandywine Creek, New Castle County, Delaware. Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

JUL 79 60P Williams, John J. ;

CONTRACT: DACW61-79-C-0011

MONITOR: DAEN/NAP 53842/DE00014-79/07

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Prepared in cooperation with O'Brien and Gere, Philadelphia, PA. Original contains color plates: All DDC and NTIS reproductions will be in black and white.

ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records, and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

(U)

DESCRIPTORS: \*Dams, \*Inspection, \*Structural analysis, Safety, Delaware, Civil engineering, Reservoirs, Water supplies, Hydrology, Maintenance, Geology, Visual inspection

(U)

IDENTIFIERS: \*Cool Springs Reservoir Dam, National Dam Safety Program, Spillways

(U)

AD-A074 272

13/2 13/13

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA

National Dam Safety Program. Hoopes Dam (DE-00015) Delaware River Basin, Old Mill Stream, New Castle County, Delaware. Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

JUL 79 84P Williams, John J. ;

CONTRACT: DACW61-79-C-0011

MONITOR: DAEN/NAP 53842/DE00015-79/07

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates: All DDC and NTIS reproductions will be in black and white.

ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records, and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

(U)

DESCRIPTORS: \*Dams, \*Inspection, \*Structural analysis, Safety, Delaware, Civil engineering, Reservoirs, Water supplies, Hydrology, Maintenance, Geology, Visual inspection

(U)

IDENTIFIERS: \*Hoopes Dam, National Dam Safety Program, Spillways

(U)

AD-A070 228

13/2 13/13

THOMAS TYLER MOORE AND LIPPINCOTT  
ENGINEERING ASSOCIATES, DELANCO NJ

National Dam Safety Program, Williams  
Pond Dam (DE00364), Nanticoke River  
Basin, Clear Brook, Sussex County,  
Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

APR 79 118P Lippincott, I. Wayne ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NA- 53842/DE00064-79/04

UNCLASSIFIED REPORT

Availability: Document partially illegible.

SUPPLEMENTARY NOTE: Prepared in cooperation with Moore-  
Lippincott Engineers, Trenton, NJ.

ABSTRACT: This report cites results of a technical  
investigation as to the dam's adequacy. The  
inspection and evaluation of the dam is as prescribed  
by the National Dam Inspection Act, Public  
Law 92-367. The technical investigation includes  
visual inspection, review of available design and  
construction records, and preliminary structural and  
hydraulic and hydrologic calculations, as applicable.  
An assessment of the dam's general condition is  
included in the report. (Author)

(U)

DESCRIPTORS: \*Earth dams, \*Inspection, \*Structural  
analysis, Safety, Delaware, Civil engineering.

(U)

Recreation, Visual inspection, Maintenance,

(U)

Hydrology, Reservoirs

IDENTIFIERS: \*National Dam Safety Program,

\*Williams Pond Dam, Spillways

AD-AC69 616

13/2

13/13

THOMAS TYLER MOORE AND LIPPINCOTT  
ENGINEERING ASSOCIATES, DELANCO NJ

National Dam Safety Program, Wagamons  
Pond (DE00061), Delaware River Basin,  
Broadkill River Basin, Sussex County,  
Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

MAR 79 128P Moore, Thomas Tyler ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NAP 53842/DE00061-79/03

UNCLASSIFIED REPORT

SUPPLEMENTARY NOTE: Original contains color plates; all  
DNC reproductions will be in black and white. Prepared  
in cooperation with Moore and Lippincott Engineers,  
Trenton, NJ.

ABSTRACT: This report cites results of a technical  
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An assessment of the dam's general condition is  
included in the report. (Author)

(U)

DESCRIPTORS: \*Dams, \*Inspection, \*Structural  
analysis, Safety, Delaware, Civil engineering,

(U)

Recreation, Reservoirs, Hydrology, Visual

inspection, Maintenance

(U)

IDENTIFIERS: \*National Dam Safety Program,

(U)

\*Wagamons Pond Dam, Spillways

AD-A070 228

PAGE

4

AD-AC69 616

AD-A069 602

13/2

13/13

**THOMAS TYLER MOORE AND LIPPINCOTT  
ENGINEERING ASSOCIATES, DELANCO NJ**

National Dam Safety Program, Sunset Lake  
Dam (DE00046). Christina River Basin.  
Muddy Run, New Castle County, Delaware.  
Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

FEB 79 102P Moore, Thomas Tyler ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NAP 53842/DE00046-79/02

**UNCLASSIFIED REPORT**

Availability: Document partially illegible.  
SUPPLEMENTARY NOTE: Prepared in cooperation with Moore  
and Lippincott Engineers, Trenton, NJ.

ABSTRACT: This report cites results of a technical  
investigation as to the dam's adequacy. The  
inspection and evaluation of the dam is as prescribed  
by the National Dam Inspection Act, Public  
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construction records, and preliminary structural and  
hydraulic and hydrologic calculations, as applicable.  
An assessment of the dam's general condition is  
included in the report. (Author)

(U)

DESCRIPTORS: \*Earth Dams, \*Inspection,  
\*Structural analysis, Safety, Delaware, Civil  
engineering, Lakes, Recreation, Hydrology,  
Maintenance, Visual inspection, Geology  
IDENTIFIERS: \*National Dam Safety Program,  
\*Sunset Lake Dam, Spillways

(U)

(U)

AD-A069 593

13/2

13/13

**THOMAS TYLER MOORE AND LIPPINCOTT  
ENGINEERING ASSOCIATES, DELANCO NJ**

National Dam Safety Program, Wyoming Lake  
Dam (DE 00034), Jones River Basin, Isaac  
Branch, Kent County, Delaware. Phase I  
Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

APR 79 98P Moore, Thomas Tyler ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NAP 53842/DE00034-79/04

**UNCLASSIFIED REPORT**

Availability: Document partially illegible.  
SUPPLEMENTARY NOTE: Prepared in cooperation with Moore  
and Lippincott Engineers, Trenton, NJ.

ABSTRACT: This report cites results of a technical  
investigation as to the dam's adequacy. The  
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An assessment of the dam's general condition is  
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(U)

DESCRIPTORS: \*Dams, \*Inspection, \*Structural  
analysis, Safety, Delaware, Civil engineering,  
Reservoirs, Recreation, Visual inspection,  
Maintenance, Fisheries, Hydrology  
IDENTIFIERS: \*National Dam Safety Program,  
\*Wyoming Lake Dam, Spillways

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AD-A069 602

PAGE

5

AD-A069 593

AD-A069 215 13/2 13/13

THOMAS TYLER MOORE AND LIPPINCOTT  
ENGINEERING ASSOCIATES, DELANCO NJ

National Dam Safe'y Program, Horseys Pond  
Dam (DE 00022), Nanticoke River Basin,  
Little Creek, Sussex County, Delaware.  
Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

APR 79 118P Moore, Thomas Tyler ;

CONTRACT: DACW61-78-C-0124

MONITOR: DAEN/NAP 53842/DE00022-79/04

UNCLASSIFIED REPORT

Availability: Document partially illegible.  
SUPPLEMENTARY NOTE: Prepared in cooperation with Moore  
and Lippincott-Engineers, Trenton, NJ. Includes  
envelope containing charts.

ABSTRACT: This report cites results of a technical  
investigation as to the dam's adequacy. The  
inspection and evaluation of the dam is as prescribed  
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An assessment of the dam's general condition is  
included in the report. (Author)

(U)

DESCRIPTORS: \*Dams, \*Inspection, \*Structural  
analysis, Safety, Delaware, Civil engineering,  
Recreation, Hydrology, Maintenance, Visual  
inspection

(U)

IDENTIFIERS: \*National Dam Safety Program,

(U)

\*Horseys Pond Dam, Spillways

AD-A069 215

PAGE

6

AD-A058 511

AD-A058 511 13/2 13/12

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND  
COURTNEY DIV

National Dam Safety Program, Silver Lake  
Dam (DE00041), Mispillion River Basin,  
Mispillion River, Kent County, Delaware.  
Phase 1 Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept..

JUN 78 63P Williams, John J. ;

CONTRACT: DACW61-78-C-0052

MONITOR: DAEN/NAP 53842/DE00041-78/06

UNCLASSIFIED REPORT

ABSTRACT: This report cites results of a technical  
investigation as to the dam's adequacy. The  
inspection and evaluation of the dam is as prescribed  
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construction records, and preliminary structural and  
hydraulic and hydrologic calculations, as applicable.  
An assessment of the dam's general condition is  
included in the report. (Author)

(U)

DESCRIPTORS: \*Earth dams, \*Inspection, Safety,  
Civil engineering, Visual inspection, Flood  
control, Water supplies, Records, Hydrology,  
Delaware, Maintenance management, Hydrology  
IDENTIFIERS: \*Silver Lake Dam, National Dam  
Safety Program

(U)

(U)

AD-A058 464

13/2 13/12

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND COURTNEY DIV

National Dam Safety Program, Records  
Pond Dam (DE00057), Nanticoke River  
Basin, Broad Creek, Sussex County,  
Delaware, Phase 1. Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept.,

JUN 78 82P Williams, John J. ;

CONTRACT: DACW61-78-C-0052

MONITOR: DAEN/NAP 53842/DC00057-78/06

UNCLASSIFIED REPORT

Availability: Document partially illegible.

ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

(U)

DESCRIPTORS: \*Earth dams, \*Inspection, Safety, Civil engineering, Flood control, Water supplies, Visual inspection, Records, Delaware, Hydrology, Army Corps of Engineers, Structural analysis, Geology

(U)

IDENTIFIERS: \*Records Pond Dam, National Dam Safety Program

(U)

AD-A058 464

PAGE

7

AD-A058 462

AD-A058 462

13/2 13/12

O'BRIEN AND GERE ENGINEERS INC PHILADELPHIA PA JUSTIN AND COURTNEY DIV

National Dam Safety Program, Haven Lake  
Dam (DE00042), Mispillion River Basin,  
Mispillion River, Kent County, Delaware,  
Phase 1. Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept.,

JUN 78 61P Williams, John J. ;

CONTRACT: DACW61-78-C-0052

MONITOR: DAEN/NAP 53842/DE00042-78/06

UNCLASSIFIED REPORT

Availability: Document partially illegible.

ABSTRACT: This report cites results of a technical investigation as to the dam's adequacy. The inspection and evaluation of the dam is as prescribed by the National Dam Inspection Act, Public Law 92-367. The technical investigation includes visual inspection, review of available design and construction records, and preliminary structural and hydraulic and hydrologic calculations, as applicable. An assessment of the dam's general condition is included in the report. (Author)

(U)

DESCRIPTORS: \*Earth dams, \*Inspection, Safety, Civil engineering, Water supplies, Visual inspection, Structural analysis, Delaware, Army Corps of Engineers, Flood control, Hydrology, Records

(U)

IDENTIFIERS: \*Haven Lake Dam, National Dam Safety Program

(U)

AD-A057 800

13/2 13/12

ARMY ENGINEER DISTRICT PHILADELPHIA PA

National Dam Safety Program, Silver Lake  
Dam, DE00031, Delaware River Basin, St.  
Jones River, Kent County, Dover,  
Delaware. Phase I Inspection Report.

(U)

DESCRIPTIVE NOTE: Final rept.,  
JAN 78 74P  
REPT. NO. DAEN/NAP-53842/DE00031-78/01

UNCLASSIFIED REPORT

Availability: Document partially illegible.  
ABSTRACT: This report cites results of a technical  
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Law 92-367. The technical investigation includes  
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An assessment of the dam's general condition is  
included in the report. (Author)

(U)

DESCRIPTORS: \*Earth dams, \*Inspection, \*Safety,  
Structural analysis, Degradation, Erosion,  
Banks(Waterways). Maintenance, Flood control,  
Delaware

(U)

ADDRESSES OF ARCHITECTS/ENGINEERS

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West Trenton, New Jersey 08628

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Philadelphia, Pennsylvania 19103

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US Army Engineer District, Philadelphia  
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2nd & Chestnut Sts.  
Philadelphia, Pennsylvania 19106  
ATTN: NAPEN-N

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LME